LED Moving Head

User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS

Version 2.0

1. Unpacking

Thank you for choosing our moving head. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

Color Imagination's moving wash is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

SI-039 adopts powerful LED lamps which features high brightness and stability. Please carefully dispack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:

Moving Head------- one Signal Cable----one
Omega Clamp------one User Manual----one
circus lifeline------one

10. Maintenance and Cleaning

The following points have to be considered during the inspection:

1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.

2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).

3）Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.

4）The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

CAUTION!
Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

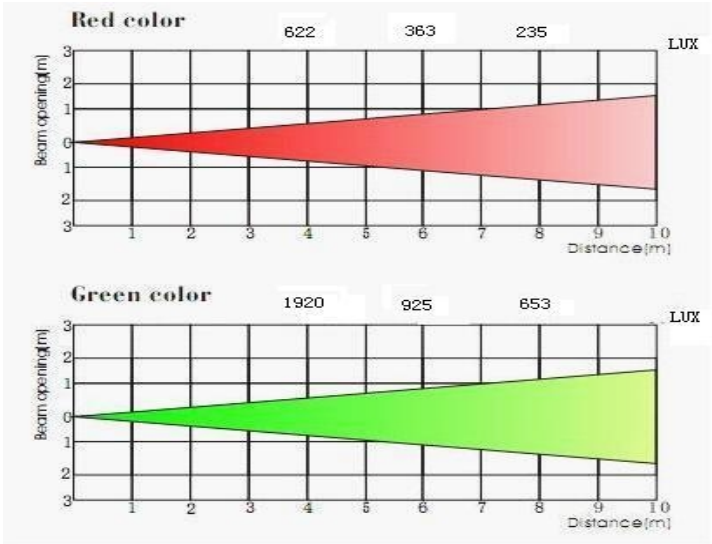
1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2) Clean the fan each week.
3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

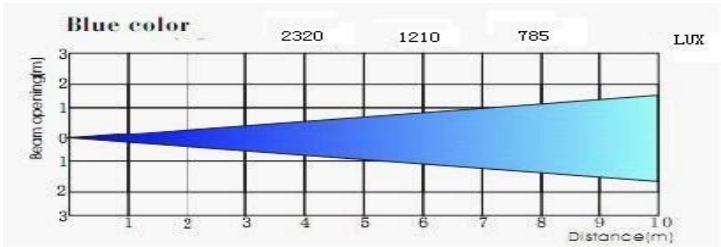
We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

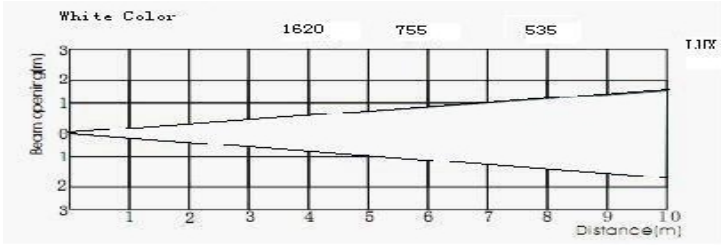
There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.

9. Wave Beam







2. Safety Instructions

CAUTION!
Be careful with your operations. With a dangerous voltage you can Suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

Important:
Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it.

Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard

3. Operation Instructions

-The moving head is an LED wash light for onsite decoration purpose.

-Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.

-This light should be keep away from strong shaking during any transportation or movement.

-Don't pull up the light by only the head, or it might cause damages to the mechanical parts.

-Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.

-Make sure the installation place is in good safety condition before installing the fixture.

-Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.

-Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.

-Make sure the fixture is operated by qualified personnel who knows the fixture before using.

-Keep the original packages if any second shipment is needed.

-Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.

-It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

8. Technical Specifications

36PCS 10W 4 in1 high power LEDs
50,000 hours lifespan and low power consumption
8 bit smooth and precise resolution for PAN/TILT movement
540°/630° pan and 280° tilt movement
Scan position memory, auto reposition after unexpected movement
RGBW color mixing system
LED shutter
LED dimming
LED rainbow effect
Macros effect
Strobe effect with 20 flashes per second and pulse effect
General dimming and blackout for all four colors
13 DMX channels
DMX512, master-slave and sound activated controllable or auto operation
Blue background LCD display

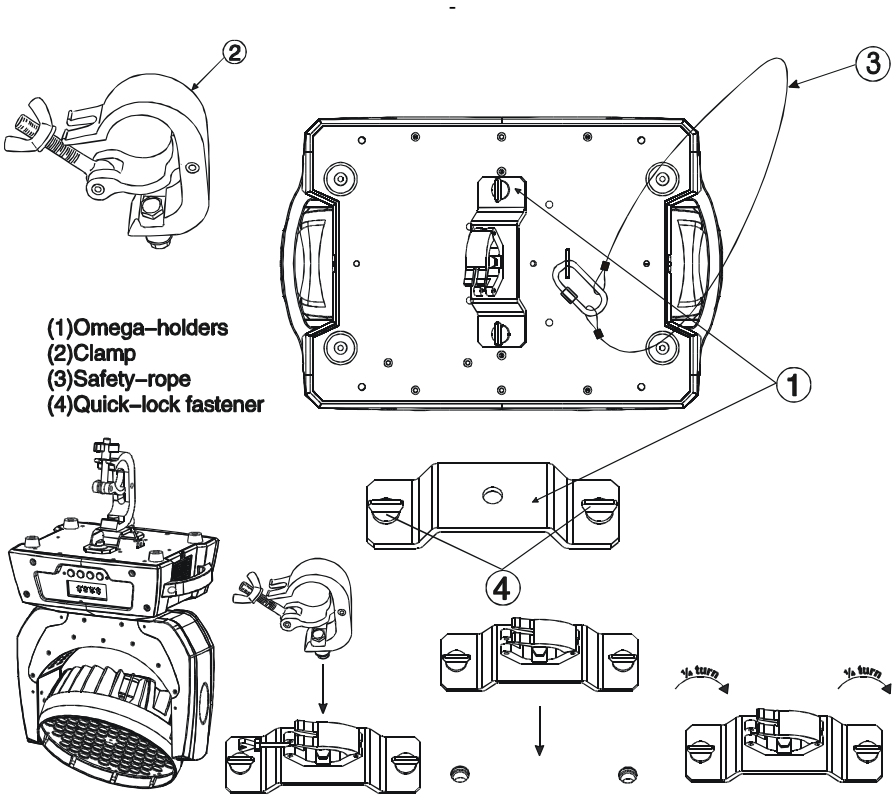
Input Voltage: AC90-240V 50-60Hz
Fan standard :size: 90X90X25 – 60X60X15
Fuse standard(at the bottom): 3.15A/250V -5A/250v:
Power Consumption: 350W
Dimensions: 350x260x350mm
Packing Dimensions: 425x295x400mm
Net Weight: 9kgs
Gross Weight: 11kgs

7.DMX Channels

CH 1 :red	0 --100% brightness adjustment
CH 2 : green	0 -- 100% brightness adjustment
CH 3: blue	0 -- 100% brightness adjustment
CH 4 white	0 -- 100% brightness adjustment
CH 5: pan scan	0° -- 540° /630 scan
CH 6: tilt scan	0° -- 280° scan
CH 7 :dimmer	0 -- 100% greyness adjustment
CH 8 :strobe	0 -- 100% brightness adjustment 007-- 065 strobe from slow to fast 066-- 069 no strobe 070 -- 128 thunder pulse strobe from slow to fast 129 - -132 no strobe 133 -- 191 gradual strobe from slow to fast 192 -- 195 no strobe 196 - - 255
CH 9:s can speed	000 -- 255 from fast to slow
CH 10: RGBW macro function	000 -- 004 no function 005 -- 044 8 fixed color 045 -- 049 no function 050 -- 094 eight color jump change 095 -- 099 no function 100 -- 149 eight color gradual change repeatly 150 - - 154 no function 155 -- 166 red+green from dark to bright 167 -- 178 green+red from bright to dark 179 -- 190 green+blue from dark to bright 19 1 -- 202 blue+green from bright to dark 203 -- 214 blue+red from dark to bright 215 ---226 red+blue from bright to dark 227 -- 238 red+green+blue from dark to bright 239- 250 blue+(ren from dark to bright,green from bright to dark)the same time 251 -- 255 output 100% all of the color
CH 11: function control channal	125 -- 127 Auto mode 250 -- 255 reset after 3 seconds
CH 12: pan fine	000 -- 255
CH 13:t lt fine	000 -- 255

4. Installation via clamp

Please refer to the picture below:



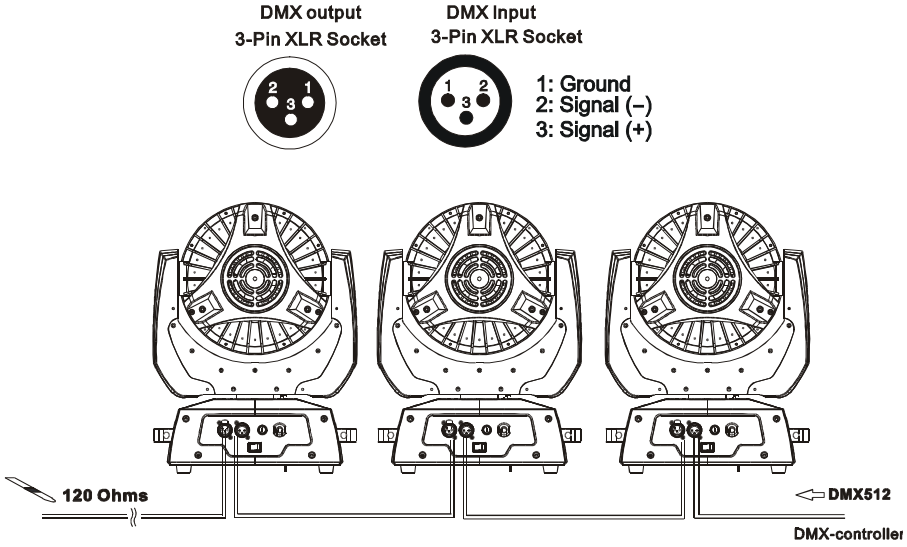
Screw one clamp each via a M12 screw and nut onto the Omega holders.

Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise. Install the second Omega holder.

Pull the safety-rope through the holes on the bottom of the base and over the trussing system or a safe fixation spot. Insert the end in the carabine and tighten the safety screw.

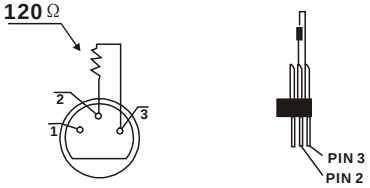
5. DMX-512 control connections

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

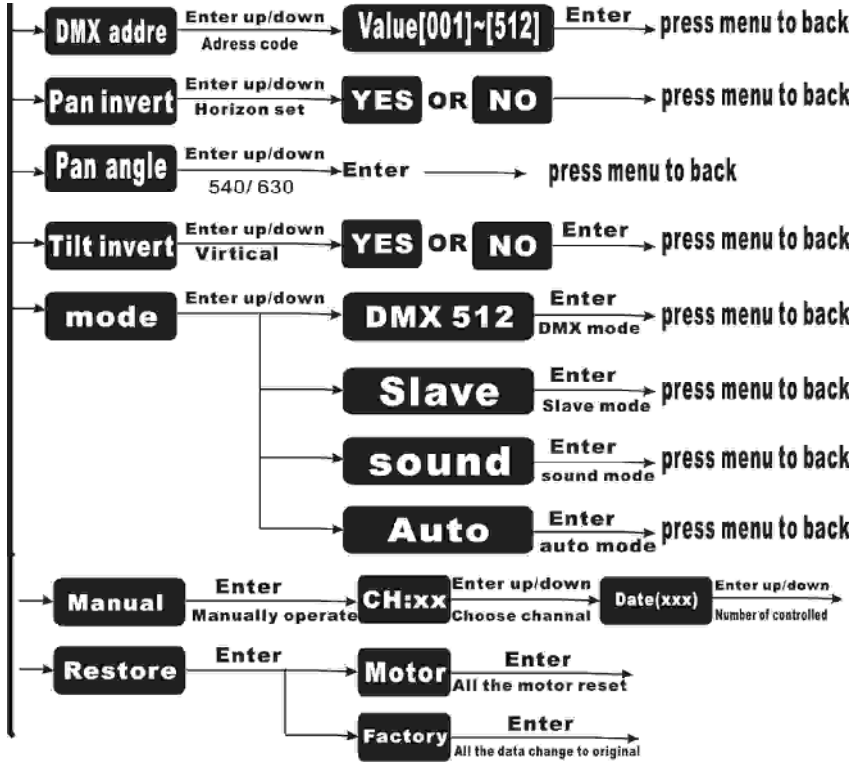


DMX-512 connection with DMX terminator

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



6. LCD Display Operations



The display will close after 30 seconds without operations.